



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
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नई दिल्ली, शनिवार, जून 29, 1991 (आषाढ़ 8, 1913)  
NEW DELHI, SATURDAY, JUNE 29, 1991 (ASADHA 8, 1913)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 29th June, 1991

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Bombay-400 013.

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Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,  
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Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Bldg.,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagdish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

**Fees :—**The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## पेटेंट कार्यालय

एकसूत्र तथा अभिकल्प

कलकत्ता, दिनांक 29 जून 1991

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार.

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी हस्टेट,  
तीसरा तल, लोअर परेल (पश्चिम),  
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ,  
वनम तथा विष एवं शहरा और नगर इवेली।

तार पता—"पेटेंटोफिस"

पेटेंट कार्यालय शाखा,  
इकाई सं० 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, कैरोल बाग,  
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा  
उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—"पेटेंटोफिस"

## पेटेंट कार्यालय शाखा,

61, चालासाह रोड,

मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र  
पाण्डिचेरी, लक्षद्वीप, मिनिर्कोय तथा एमिनिदिवि द्वीप।

तार पता—"पेटेंटोफिस"

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय  
मकान 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700 020

भारत का अविशेष क्षेत्र

तार पता—"पेटेंट्स"

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी  
आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल  
उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क : — शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त  
कार्यालय में नियंत्रक को भुगतान योग्य भनादेश अथवा डाक आदेश या जहाँ  
उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को  
भुगतान योग्य बैंक ड्राफ्ट अथवा चेक द्वारा की जा सकती है।

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed  
Under Section 135, of the Patents Act 1970.

The 17th May, 1991

373/Cal/91 Aditya Uday Chakraborty. Multipurpose washing  
pumping machine.374/Cal/91 Chiltern Farm Chemicals Limited. Metaldehyde-  
containing pesticides. (Convention date 18th May,  
1990; No. 90111873; U.K.).375/Cal/91 Aurinco Holdings Limited. Self-supporting mirror  
and method for the manufacture thereof.376/Cal/91 Aurinco Holdings Limited. Device for the utilization  
of solar energy.

The 21st May, 1991

377/Cal/91 International Press Development Establishment.  
Injection unit for a hydraulic die-casting machine,  
provided with a device for the elimination of pressure  
peaks at injection.378/Cal/91 E.I. Du Pont De Nemours and Company. Bonded fib-  
rous articles.379/Cal/91 Hoechst Aktiengesellschaft. Process for the prepara-  
tion of chlorofluoronitrobenzenes and diflu-  
oronitrobenzenes.380/Cal/91 Westinghouse Electric Corporation. Optimized 18-  
pulse type Ac/Dc, or Dc/Ac, converter system.381/Cal/91 ARX Pty. Limited. A lock barrel assembly and key  
therefor. (Convention date 21st May, 1990; No. PK  
0244; Australia).382/Cal/91 Sibelon S.r.l. Method for protecting dams with prea-  
sureless dehydration by condensation and drainage  
of the water in the dam body.

The 23rd May, 1991

383/Cal/91 Gillanders Arbuthnot & Co. Ltd. A novel locking or  
binding mechanism.384/Cal/91 Monoj Kumar Choudhury. A process for beneficia-  
tion of low-grade naturally occurring substances, par-  
ticularly coal and apparatus therefor.385/Cal/91 Monoj Kumar Choudhury. Apparatus for removing  
dust particles from ducts or passage for fluids.

386/Cal/91 E.I. Du Pont De Nemours and Company. Fluorination process.

387/Cal/91 E.I. Du Pont De Nemours and Company. Fluorination of haloolefins.

388/Cal/91 Siemens Aktiengesellschaft. Contact arrangement for a vacuum interrupted.

389/Cal/91 Siemens Aktiengesellschaft. Process for operating a position measuring system.

390/Cal/91 Vergola International Pty. Ltd. Improvements in louvres.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-13.

The 8th April, 1991

99/Bom/91 Hindustan Lever Ltd. Particulate bleaching detergent composition. The 9th April, 1990, Gr. Britain.

The 9th April, 1991

100/Bom/91 Dhananjay Ramkriahna Tutakne. Solid state multiplexing units for multi point recorders.

101/Bom/91 Karimbhai Valibhai Mankad. Putting out the wick-flames of the wick-stove which is switch type.

The 11th April, 1991

102/Bom/91 Pradeep S. Buzruk Dr. Padmaker P. Chikate Vasant L. Kshirsagar. Earth leakage circuit breaker.

The 16th April, 1991

103/Bom/91 Raj Rohitbhai Parikh. The drive belt deflection mechanism for TFO machine in textile industry.

The 18th April, 1991

104/Bom/91 Hemant Madhukar Ranadive. Simultaneous multiple operation lathe.

105/Bom/91 Hemant Madhukar Ranadive. Energy carpet.

106/Bom/91 Hindustan Lever Ltd. Process for manufacture.

The 19th April, 1991

107/Bom/91 Mr. Shodhan Anil Bhawe. Parallel cell/generator logic circuit.

108/Bom/91 Rajesh Badhwar, Knee endoprosthesis.

109/Bom/91 Hoechst India Ltd. A process for the production of a novel phenazine anti-biotic called phencomycin from a new strain of Streptomyces species culture number HIL Y-90, 31725, its variants or mutants.

110/Bom/91 Mr. Kazi S.S. K.I. Double burner kerosene stove.

The 22nd April, 1991

111/Bom/91 Priyal Khanderao Kulkarni & Viyal Priya Kulkarni. A heated tunnel gasifier to convert biomass to a combustible gas.

112/Bom/91 Paramount Sinters Pvt. Ltd. A process for the production of electrolytic nickel from primary and/or secondary nickel resource(s).

113/Bom/91 Uttam Buty. A device for permanent lifelong protection against fusing of brand new tube light rods and also reusing fused tube light rods and also eliminating entirely the use of expensive filaments in the manufacture of tube light rods and the like including sodium/mercury vapour lamps and the like gas or vapour filled lamps.

114/Bom/91 Nandan Ramdas Chittal. A railway undercarriage assembly for motor vehicles.

The 25th April, 1991

115/Bom/91 Hindustan Lever Ltd. Copolymerisation.

The 26th April, 1991

116/Bom/91 Chirakal Bhaskaran. Improved tandem device for filling bottles and the like with carbon dioxide gas from a cartridge or standard gas cylinder and a crown cork capping device for such gas filled bottles and the like to produce aerated waters and the like.

117/Bom/91 Shri Pronab Kumar Roy & Shri Dyandeo Pandurang Nemane. Jai loom.

#### OPPOSITION PROCEEDINGS

The Opposition entered by National Council for Cement & Building Materials to the grant of a Patent on Application No. 162194 made by Durga Prosad Saboo as notified in the Gazette of India Part III, Section 2 dated 5th November, 1988 has been treated as abandoned and it is ordered that a Patent shall be Sealed on Application for Patent No. 162194 in the prescribed manner.

#### CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

(1)

The claim made by SKW France S.A. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 168316 in their name has been allowed.

(2)

The claim made by Asea Brown Boveri, Inc. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 167474 in their name has been allowed.

(3)

The claim made by Asea Brown Boveri, Inc., under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 166408 in their name has been allowed.

(4)

The claim made by Asea Brown Boveri, Inc., under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 167651 in their name has been allowed.

(5)

The claim made by Asea Brown Boveri, Inc., under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 167074 in their name has been allowed.

(6)

The claim made by Datron Inc., under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 167540 in their name has been allowed.

## PATENTS SEALED

166541 167014 167015 167020 167028 167029 167030 167031 167033  
167066 167115 167120 167132 167134 167162 167171 167172 167173  
167174 167187 167191 167197 167200 167251 167265 167266 167268  
167271 167272 167273 167274 167275 167290 167300 167301 167326  
167330.

CAL— 3  
DEL—11  
MAS—17  
BOM— 4

## RENEWAL FEES PAID

147321 147645 147918 148102 148925 149463 149946 150120 150218  
150523 150555 150556 150680 150816 150817 150819 150919 151035  
151036 151038 151079 151147 151519 151967 152435 152503 152600  
152607 152628 152648 152679 152765 152793 153200 153287 153301  
153554 153589 153645 153684 153739 153745 153753 153772 153779  
153818 153819 153820 153821 153860 153961 154100 156495 154744  
154752 154753 154789 154929 155212 155305 155320 155664 156368  
156380 156425 156449 156558 156601 156860 157110 157125 157177  
157257 157299 157467 157471 157475 157476 157477 157481 157560  
157565 157645 157657 157666 157709 157721 157732 157782 157864  
157935 158005 158042 158051 158095 158254 158255 158443 158444  
158446 158457 158588 158666 158807 158838 158898 158904 158930  
158964 159019 159035 159132 159140 159141 159182 159143 159473  
159553 159673 159675 159758 159811 159817 159957 159991 160060  
160088 160098 160204 160279 160280 160282 160298 160299 160551  
160553 160581 160669 160685 160756 160773 160813 160815 160816  
160827 160830 160840 161128 161211 161487 161547 161760 161802  
161809 161821 161830 161867 161877 161949 162086 162087 162149  
162248 162351 162355 162386 162452 162526 162576 162577 162580  
162645 162784 162817 162855 163023 163065 163103 163110 163232  
163389 163412 163415 163435 163470 163535 163581 163590 163624  
163643 163650 163657 163845 164014 164101 164226 164301 164320  
164334 164504 164585 164653 164845 164850 164981 165220 165251  
165292 165293 165512 165523 165525 165526 165658 165721 165724  
165746 165756 165761 165765 165767 165770 165801 165802 165856  
165858 165925 166181 166188 166254 166284 166406 166420 166456  
166472.

## RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155250 granted to JEHLANGIR CAWAS MODY for an invention relating to "IMPROVEMENTS IN OR RELATING TO FLOORING TILES".

The patent ceased on the 6th December, 1989 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 9th February, 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 29th August, 1991 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Ra. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Ra. 4/-.

## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कमी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रमार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी सहायगी पर की जा सकती है। विनिर्देश की पुष्ट संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पुष्ट का लिप्यान्तरण प्रमार 4/- रु० है) फोटो लिप्यान्तरण प्रमार का परिकल्पन किया जा सकता है।

Ind. Cl.: 69—0—[GROUP—LIX (1)]  
Int. Cl. 4: H 01 H 3/00

168851

#### A MULTIPOLE ELECTRICAL CIRCUIT BREAKER LOCATED IN A MOLDED INSULATING CASE.

Applicant: MERLIN GERIN, OF RUE HENRI TARZE, 38050 GRENOBLE CEDEX, FRANCE, A FRENCH COMPANY.

Inventors: (1) BUR MARC (2) NEBON JEAN-PIERRE.

Application No. 823/Maa/86 filed on 17th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 10 Claims

A multipole electrical circuit breaker located in a molded insulating case having an open ended intermediate housing having a partition wall defining an upper end and a lower end;

a cover shutting off the upper end of said housing;

a base plate shutting off the lower end of said housing which extends parallel to said cover and base plate so as to define an upper compartment;

an operating mechanism housed in said upper compartment for activating said circuit breaker between open and closed positions;

a plurality of poles housed in the said lower compartment located side-by-side with interposed separation walls;

an aperture located in said sub-dividing partition for the mechanical link of each pole to pass through, said cage being disposed in the lower compartment to blank off said aperture in such a way as to form an electrical, thermal and anti-pollution shield between the upper and lower compartments of the case;

each pole having a pair of separable contacts comprising a stationary contact cooperating in the closed position of the circuit breaker with a plurality of elementary movable contact fingers;

a transverse rotatable switching bar common to all the poles and coupled to said operating mechanism for driving simultaneously the movable contact fingers of each pole between the open and closed positions;

an arc chute for extinguishing an arc drawn in each pole between said movable contact fingers and the stationary contact in the open position;

an insulating cage for supporting the movable contact fingers of each pole;

a pair of first and second connection pads electrically connected respectively to the stationary contact and to the movable contact fingers of each pole;

said cage and the second connection pad forming a sub-assembly which is securedly united to said partition wall of the case;

a fixing screw associated to said second connection pad for attachment of said sub-assembly to the partition wall; and

a mechanical transmission link interconnecting the insulating cage with said switching bar by means of a disengageable coupling slidable between a first retracted position for disengaging said link, and a second retaining position for establishing said link between the bar and the cage.

Compl. 23 pages.

Drwgs. 10 sheets

Ind. Cl.: 40—B—[GROUP—IV (1)]  
Int. Cl. 4: B 01 J 23/50

168852

#### A PROCESS FOR PREPARING A CATALYST CONSISTING SILVER DEPOSITED ON AN INERT CARRIER MATERIAL.

Applicant: THE DOW CHEMICAL COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A.

Inventors: (1) JOHN WILHELM GEUS (2) GARMT RICARDO MEIMA.

Application No. 854/Maa/86 filed on 31st October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office, Madras Branch.

#### 9 Claims

A process for preparing a catalyst consisting silver deposited on an inert carrier material such as  $\text{SiO}_2$  and/or  $\text{Al}_2\text{O}_3$  comprising precipitating silver from a solution of reducible silver compound by means of a reducing agent in the form of an oxidizable metal and/or metal compound selected from the group of tin, lead, manganese, arsenic, antimony and their compounds; wherein the said reducing agent is present on the surface of the said inert carrier material thereby enabling the silver to be precipitated on the surface of the said inert carrier material.

Compl. 20 pages.

Drwgs. Nil

Ind. Cl.: 40 B [GROUP IV (1)].  
Int. Cl.: B 01 J 23/00.

168853

#### A PROCESS FOR PREPARING A CATALYST.

Applicant: THE DOW CHEMICAL COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND MICHIGAN 48640, U.S.A.

Inventors: (1) JOHANNES MARINUS WIGMAN, (2) JACOBUS ELISABETH BONGAARTS, (3) JOHN WILHELM GEUS & (4) GARMT RICARDO MEIMA.

Application No. 855/Maa/86, filed on 31st October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Madras.

#### 6 Claims

A process for preparing a catalyst comprising mixing a catalytically active material such as herein defined with a complexing agent such as EI/TA, citric acid, lactic acid, oxalic acid, formic acid, to form a solution the viscosity of which does not decrease upon heating and/or evaporation of the solvent, impregnating the said solution into a known carrier material having a surface area of at least 20 m<sup>2</sup>/g, subsequently evaporating the solvent and decomposing the complex of the active precursor by heating.

Compl. Specn. 18 Pages.

Drgs. Nil.

Ind. Cl.: 40-B [GROUP IV (1)].  
Int. Cl.: B 01 J 23/50.

168854

#### AN IMPROVED PROCESS FOR PREPARING A SILVER CATALYST.

Applicant: THE DOW CHEMICAL COMPANY, OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A., A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

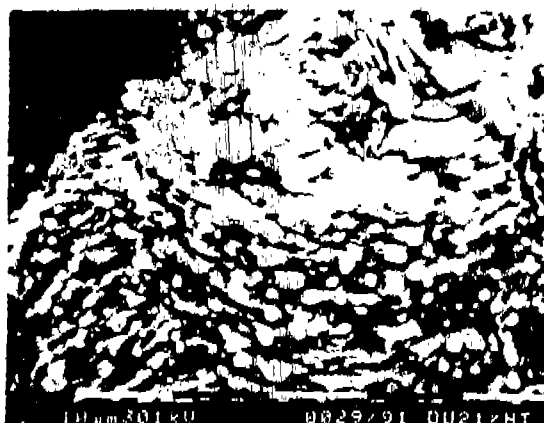
Inventors: (1) JOHN WILHELM GEUS, (2) GARMT RICARDO MEIMA, (3) JACOBUS ELISABETH BONGAARTS.

Application No. 856/Maa/86, filed on 31st October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Madras.

#### 6 Claims

In a process for preparing a silver catalyst deposited on an  $\alpha$ -aluminum oxide carrier material, improvement comprising treating the said  $\alpha$ -aluminum oxide carrier material with an acid having pK value not more than 3, to obtain  $\alpha$ -aluminum carrier material having at least 1% of the surface provided with steps or stepped structure, followed by washing with water and heating the said treated carrier material to a temperature higher than 1000°C, prior to depositing silver particles thereon by known methods.



Compl. Specn. 14 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 40-H—[GROUP-IV(1)]  
Int. Cl.: B 01 D 53/02

168855

#### A NOVEL PRESSURE SWING ADSORPTION PROCESS AND AN APPARATUS FOR CONDUCTING THE SAME

Applicant: LINDE AKTIENGESellschaft, OF ABRAHAM-LINCOLN-STRASSE 21, D-6200 WIESBADEN, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

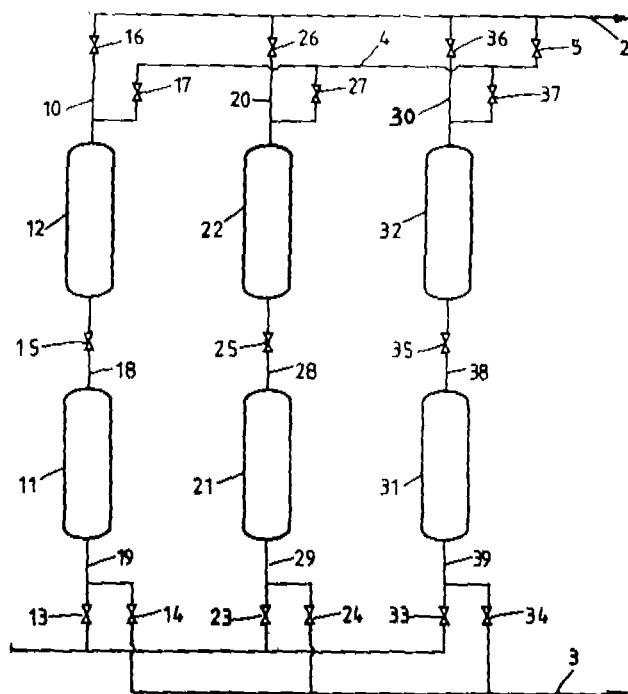
Inventor : CHRISTIAN BENKMANN

Application No. 954/Maa/86 filed on 9th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Madras, Branch.

### 28 Claims

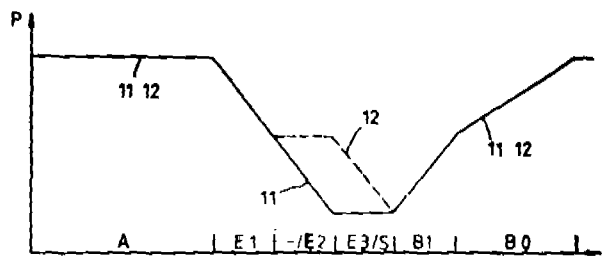
An apparatus for conducting a pressure swing adsorption process comprising at least three adsorbers, each of said adsorbers being connected by means of valves to a feed gas supply conduit, a discharge conduit for unadsorbed gas, a residual gas conduit and at least one pressure equalization conduit, and a program control unit for controlling the operation of said valves, each adsorber being subdivided into a first adsorber section and a second adsorber section, said first and second adsorber sections being connected in series, and a regulating valve is disposed between said first and second adsorber sections, the position of said regulating valve being controlled by said program control unit in dependence on signals sent to said program control unit from a pressure measuring means associate with said first and second adsorber sections.



A	E1	-	E3	B1	B0
A	E1	E2	S	B1	B0

B1	B0	A	E1	-	E3
B1	B0	A	E1	E	S

E1	-	E3	B1	B0	A
E1	E2	S	B1	B0	A



Compl. Specn. 33 Pages;

Drwgs. 5 Sheets.

Ind. Cl. : 140-A—[GROUP-XI(2)]  
Int. Cl. : C 10 M 105/08

168856

### LUBRICANTS FOR RECIPROCATING AIR COMPRESSORS

Applicant : THE DOW CHEMICAL COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A.

Inventors : (1) ELDON L. WARD, (2) PHILIP W. McGRAW, (3) THOMAS J. APPLEMAN

Application No. 984/Maa/86 filed on 17th December, 1986.

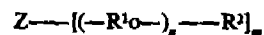
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 14 Claims

A lubricant composition comprising :

(A) 15 to 45 weight percent of an ester of a monohydric alcohol having 4 to 18 carbon atoms with one or more aromatic or alkane dicarboxylic acids having 4 to 18 carbon atoms; and

(B) 85 to 55 weight percent of one or more polyether polyols which have a flash point greater than 375°F (191°C) and which have the formula



wherein,

Z is the residue of an initiator for polyetherpolyols, said initiator having 1 to 8 hydroxyl groups;

R<sup>1</sup> is an alkylene radical having 2 to 4 carbon atoms;

n is an integer which will give a number average molecular weight range from 400 to 5000 for the final compound;

m is an integer having a value of from 1 to 8; and

R<sup>2</sup> is hydrogen or an alkyl group of 1 to 6 carbon atoms; and

(C) optionally an effective amount of ashless

additive such as herein described.

Compl. Specn. 15 Pages;

No Drwg.

Ind. Cl. : 85-I—[GROUP-XXXI]

168857

Int. Cl.<sup>4</sup> : F 27 B 14/20

AN APPARATUS FOR CONTROLLING STIRRING STRENGTH OF A JET OF OXYGEN GAS AND THE FLOW RATE OF THE OXYGEN GAS BLOWN ONTO A MOLTEN METAL BATH IN A TOP-BLOWING OXYGEN FURNACE

Applicant: SUMITOMO METAL INDUSTRIES, LTD., A JAPANESE BODYCORPORATE OF 15 KITAHAMA, 5-CHOME, HIGASHI-KU, OSAKA-SHI, OSAKA, JAPAN.

Inventors: (1) TAKASHI SUGIMORI, (2) SAKAE FURUJO

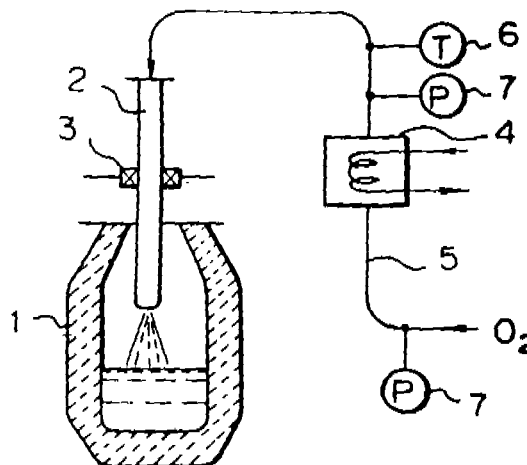
Application No. 902/Maa/86 filed on 24th November, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

4 Claims

An apparatus for controlling the stirring strength of a jet of oxygen gas blow onto a molten metal bath in a topblowing oxygen

furnace comprising an oxygen supplying conduit provided with means for sensing the temperature of the oxygen gas supplied, means for sensing the pressure of the oxygen gas supplied, means for regulating the pressure of the oxygen gas supplied and means for regulating the temperature of the oxygen gas supplied independent of the pressure of the oxygen gas supplied to control the stirring strength without changing the lance height.



Compl. Specn. 16 Pages;

Drwg. 1 Sheet.

Ind. Cl. : 90 K [GROUP-XXXVI]

168858

Int. Cl.<sup>4</sup> : C 03 B 5/04

GLASS MELTING FURNACE WITH IMPROVED EFFICIENCY

Applicant: SORG GmbH & CO. KG, OF IM ALLER 23 8770 LOHR/MAIN, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

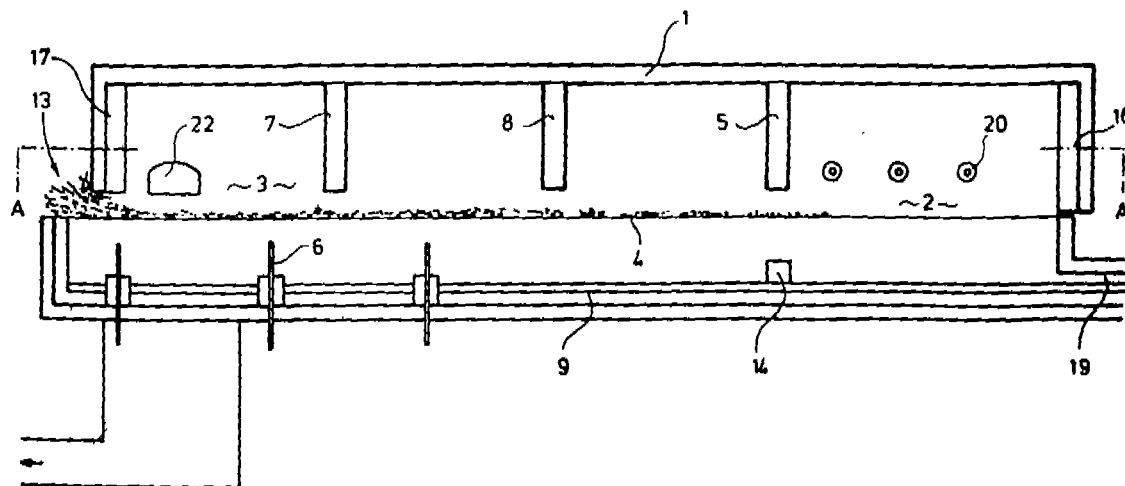
Inventor: HELMUT PIEPER

Application No. 950/Maa/86 filed on 8th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

10 Claims

A glass melting furnace comprising a rectangular glass melting tank to hold molten glass across the full width of the said tank, a mixture of feeding section (3) with a mixture feeding position on one of the sides along the width of the said tank, a burner section (2) with burners positioned adjacent to the side opposite to that of the mixture feeding position, heat exchangers for heat exchange between exhaust combustion gases and the combustion air supplied to the burners, openings for exhaust in exhaust gas disposed adjacent to the mixture feeding position, roof (1) having at least one radiation protective barrier (5) extending upto a position near the molten glass surface (4) and electrodes (6) disposed within the mixture feeding section (3) for supplying electric energy to the region near the mixture feeding position.



Compl. Specn. 14 Pages;

Drwgs. 3 Sheets.

Ind. Cl.: 24-D.—[GROUP-LV]

168859

Int. Cl.: B 60 T 17/00

## FLUID PRESSURE BRAKING SYSTEM

Applicant: ALLIED CORPORATION, OF COLUMBIA ROAD AND PARK AVENUE, MORRIS TOWNSHIP, MORRIS COUNTY, NEW JERSEY 07960, UNITED STATES OF AMERICA, AN AMERICAN COMPANY.

Inventor: DAVID JOHN KNIGHT

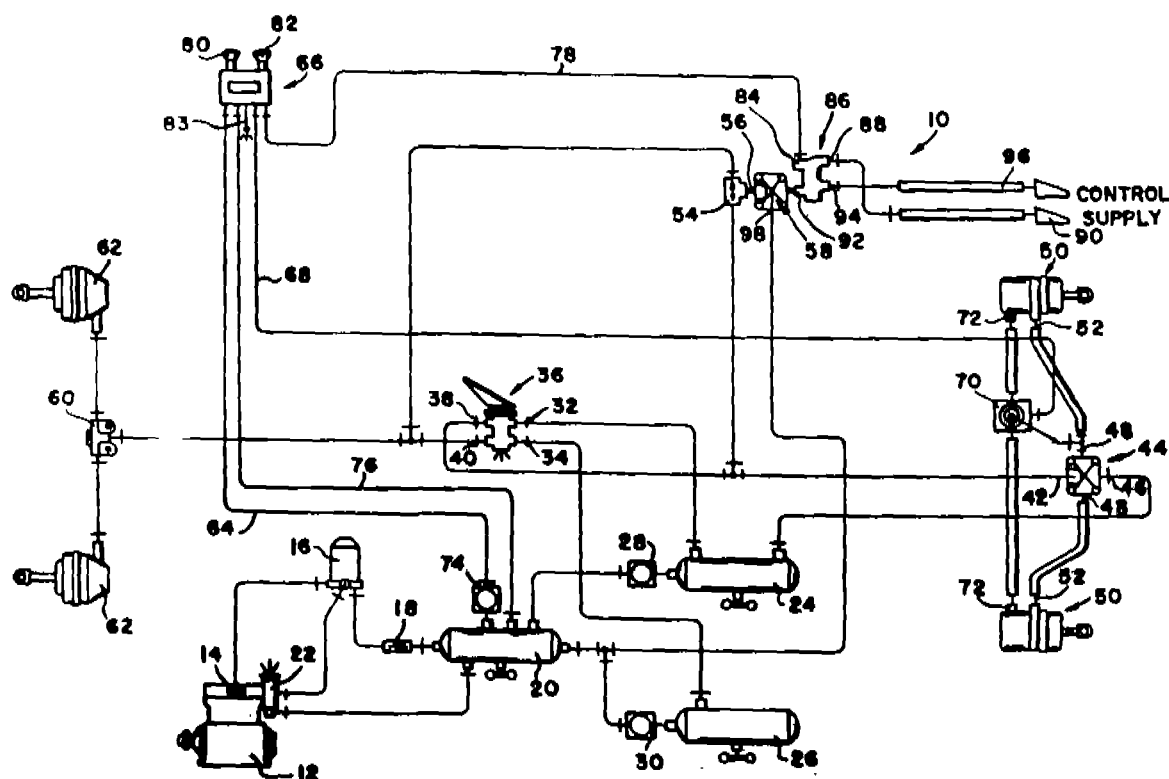
Application No. 964/Mas/86 filed on 11th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 3 Claims

Fluid pressure braking system comprising first and second sets of fluid pressure operated service brakes (62, 52) a set of fluid pressure responsive emergency brakes (72), a fluid pressure source

(12), a supply reservoir (20) communicated with said fluid pressure source (12), a pair of service reservoirs (24, 26) first and second conduits separately communicating each of said service reservoirs (24, 26) with said supply reservoir (20), first and second pressure protection valves (28, 30) located in said conduits for preventing pressure communication from said supply reservoir (20) into said service reservoirs (24, 26) until the pressure level in said supply reservoir attains a predetermined level, and means (36, 60, 44) for communicating each of said service reservoirs with a corresponding set of said service brakes (62, 52) said communicating means (36, 60, 44) having operator-actuated valve means (36) for substantially simultaneously communicating said first and second sets of service brakes (62, 52) with their corresponding service reservoirs (24, 26) third conduit means (64) for communicating said supply reservoir (20) with said emergency brakes (72), said third conduit means (64) is independent and separates from both of said service reservoirs (24, 26) and said first and second pressure protection valves (28, 30) and a third pressure protection valve (74) in said third conduit means (64) for preventing communication from said supply reservoir (20) to said emergency brakes (72) until the pressure level in said supply reservoir (20) attains a predetermined level.



Ind. Cl. : 70 B; 14C [GROUPS-LVIII(5), LVIII(1)]  
Int. Cl.<sup>4</sup> : H 01 M 4/00

168860

**A SOLID POLYMER ELECTROLYTE ELECTRODE STRUCTURE AND A METHOD OF MANUFACTURING THE SAME.**

Applicant: THE DOW CHEMICAL COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A.

Inventor: (1) JOHN M. MCINTYRE, (2) JEFFREY D. BIRDWELL & (3) BRUCE R. SMITH

Application No. 991/Mas/86 filed on 18th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

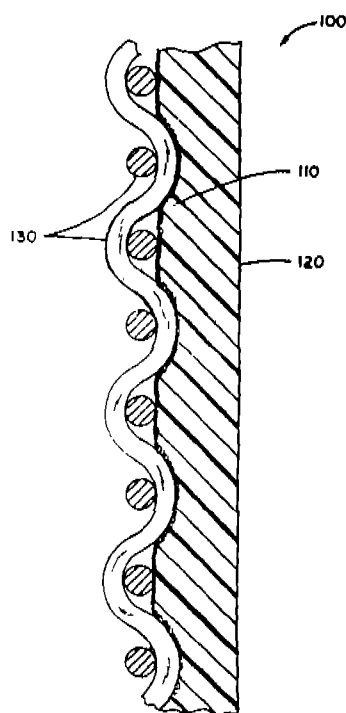
10 Claims

A solid polymer electrolyte electrode structure comprising:

(a) a membrane made of a fluorocarbon in the form of a sheet;

(b) a plurality of catalytically active and electrically conductive particles selected from platinum group metals, oxides of ruthenium, iridium, rhodium, platinum, palladium and oxides of a film-forming metal; and

(c) an electrically conductive, hydraulically permeable matrix structure selected from carbon cloth, carbon paper, carbon felt, metallic screens, metallic felt and porous metallic sheets; wherein the particles and the matrix are in physical and electrical contact with each other and are embedded in or bonded to at least a portion of one side of membrane sheet.



Compl. Specn. 20 Pages;

Drwg. 1 Sheet.

CLASS. : 143 D<sub>1</sub>  
Int. Cl. : B 65 D 75/00

168861

**"MULTIPLE LAYER PACKAGING FILMS AND PACKAGES FORMED THEREOF".**

Applicant: (1) AMERICAN CAN PACKAGING INC., OF AMERICAN LANE, GREENWICH, CONNECTICUT 06836-2600, UNITED STATES OF AMERICA. AND (2) KENDALL MCGAW LABORATORIES, INC. OF 2525 MCGAW AVENUE, IRVINE, CALIFORNIA 92714, UNITED STATES OF AMERICA.

Inventors: (1) JEAN ELIZABETH RANIERE, (2) STEVEN LOUIS SMITH, (3) RUSSELL PAUL GEHRKE, (4) RICHARD EUGENE JOHNSON

Application No. 864/Cal/1986 filed on 28th November, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

11 Claims

A multiple layer film, for producing packages comprising:

(a) a first layer, the composition of said first layer being selected from the group consisting of ester containing materials such as herein described;

(b) a second sealant layer such as herein defined; and

(c) a third adhesive layer adhering said first layer to said second layer with good adhesion, said third layer being positioned between, and adhered, in face-to-face contact, to said first and second layers.



Fig. 1

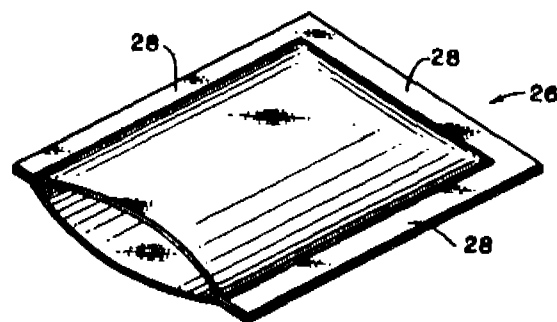


Fig. 2

Compl. Specn. 19 Pages;

Drwg. 1 Sheet.

CLASS : 94E  
Int. Cl. : B 02 C, 2/00.

168862

CONE CRUSHER

Applicant : VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY I PROEKITNY INSTITUT MEKHANIC HESKOI OBRABOTKI POLEZNYKH ISKOPAEMYKH, OF LENINGRAD, 21 LINIA, 8A, USSR:

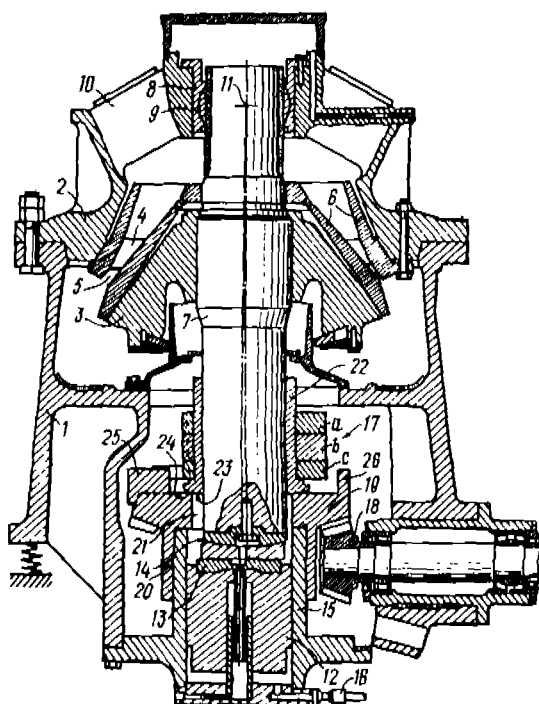
Inventors : (1) VLADIMIR IVANOVICH REVNIVTSEV, (2) LEONID PETROVICH ZAROGATSKY, (3) GENRIKH ALEX-ANDROVICH DENISOV, (4) VIKTOR VSEVOLODOVICH FEDYAKOV.

Application No. 547/Cal/1987 filed on 15th July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 2 Claims

A cone crusher comprising a housing, a hollow outer cone fixed in the housing, an inner cone accommodated within the hollow outer cone and defining a discharge slot there-between, mounted for rotation about its axis and gyrations about a centre belonging to the axis of the outer cone, a shaft extending coaxially with the inner cone and fast therewith, means for adjusting the size of the discharge slot, including a mechanism for reciprocating the shaft along axis of the outer cone, having its power member operatively connected with the free end of the shaft of the inner cone through a self-aligning spherical joint, and means for imparting gyrations to the inner cone, mounted on the shaft thereof for sliding there-along and rotating thereabout, operatively connected with a drive through a bevel gear of which the driven gear is arranged concentrically with the line of the motion of the power member of the reciprocating mechanism and has a central bore of a diameter exceeding the diameter of the shaft of the corner cone, the means for imparting gyrations to the inner cone including an unbalanced vibrator having a spherical bearing surface, the central bore of the driven gear having thereabout a peripheral supporting spherical edge adapted for operative interaction with the spherical bearing surface of the unbalanced vibrator to define therewith a self-aligning spherical joint, the end face of the driven gear carrying a driver adapted to engage the unbalanced vibrator for transmitting the driving torque thereto.



Compl. Specn. 14 Pages.

Drwg. 1 Sheet.

CLASS. : 139 A.  
Int. Cl. : C 10 B 47/00, 53/00

168863

#### "COKE MAKING PROCESS"

Applicant : VOSTOCHNY NAUCHNO-ISSLEDOVATELSKY UGLEKHIMICHESKY INSTITUT (VUKHIN), OF SVERDLOVSK, ULITSA 8 MARTA, 14, USSR

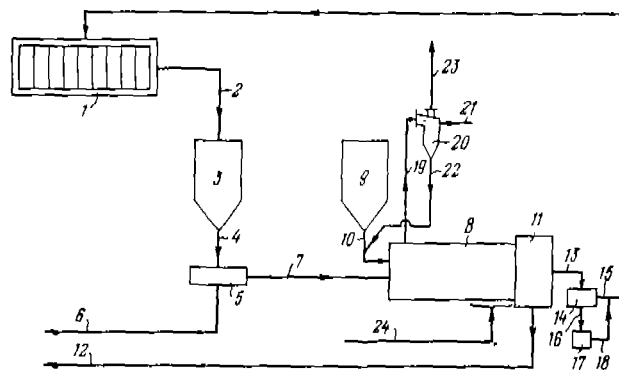
Inventors : (1) BORIS IVANOVICH BABANIN (2) NIKOLAI SERGEEVICH GRYAZNOV (3) ANATOLY IVANOVICH SHEVCHENKO, (4) IVAN ZAKHAROVICH SHATOKHA, (5) IRINA RAFAILOVNA FURSA, (6) BORIS SOLOMONOVICH KOROVER, (7) GEORGY ANDREEVICH KOTSJUBA, (8) VLADIMIR IVANOVICH BABANIN, (9) LEONID IOSIFOVICH ERKIN, (10) BORIS SHMULEVICH STATNIKOV, (11) EVGENY ANATOLIEVICH PERMYAKOV, (12) VIKTOR GRIGORIEVICH IVANITSKY, (13) VLADIMIR PAVLOVICH NOSOV.

Application No. 683/Cal/1987 filed on 31st August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 5 Claims

A process for making coke comprising preheating of a crushed coal charge, carbonization of the heated coal charge and cooling of the coke thus obtained, characterised in that the preheating of the crushed coal charge is carried out by mixing thereof with coke having a temperature from 600 to 1050°C the coal charge-to-coke mass ratio being within 1.3:1 to 2.6:1, in a counter flow of both, whereby the coke temperature drops down to within 150 and 250°C, while the coal charge temperature rises to within 120 and 240°C, whereupon, after the heat exchange is completed, the mix of coal charge and coke is subdivided into the coke and coal charge and the coal charge preheated to form 120°C to 240°C is delivered for carbonization.



Compl. Specn. 26 Pages;

Drwg. 1 Sheet.

CLASS. : 144 E<sub>6</sub>  
Int. Cl. : C09C 1/22, 1/24, 1/40.

168864

#### "PROCESS FOR PREPARING PLATELET-SHAPED IRON OXIDE PIGMENTS"

Applicant : MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF D-6100 DARMSTADT,

FRANKFURTER STRASSE 250, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) FRANZ KLAUS-DIETER, (2) ESSELBORN REINER, (3) EMMERT RALF, (4) BRUCKNER HANS-DIETER.

Application No. 739/Cal/1987 filed on 15th September, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 3 Claims

A process for the preparation of platelet-shaped iron oxide pigments of the formula  $Al_xFe_{2-x}O_{3-y}$  wherein x has a value from 0.02 to 0.5 and y has a value from 0.3 to 1.0, characterized in that a pigment of the formula  $Al_xFe_{2-x}O_3$  wherein x has a value from 0.02 to 0.5 is heated at a temperature of 200-800°C in a reducing atmosphere as herein described.

Compl. Specn. 9 Pages;

Drwg. Nil.

CLASS.: 29 D, 105-C  
Int. Cl.: G 11 B 7/00

168865

### "OPTICAL MEMORY DEVICE."

Applicant : INSTITUT PROBLEM MODELIROVANIA V ENERGETIKE AKADEMII NAUK UKRAINSKOI SSR; OF KIEV, PROSPEKT POBEDY, 56, USSR;

Inventor : (1) ALEXANDR ALEXANDROVICH ANTONOV, (2) VYACHESLAV VASILIEVICH PETROV.

Application No. 960/Cal/1987 filed on 8th December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 2 Claims

An optical memory device comprising a storage for optical data carriers, characterized in that it is provided with at least two movable optical data carriers, a means for transferring the optical carriers from the storage to one or several stations of at least two stations for data recording or reading, at least one modulated electromagnetic radiation source optically connected to the optical data recording or reading, at least one modulated electromagnetic radiation source optically connected to the optical data carrier, at least one photodetector optically connected to the optical data carrier, and a switching unit consisting a rotatable light beam splitter equally spaced from each of the optical data carrier, when they are disposed at a respective station and a lens rotatable simultaneously with the light beam splitter and optically connected thereto for switching modulated electromagnetic radiation from the modulated electromagnetic radiation source to the optical data carriers and from the optical data carriers to the photodetector in accordance with the address of the station where a respective optical data carrier is disposed.

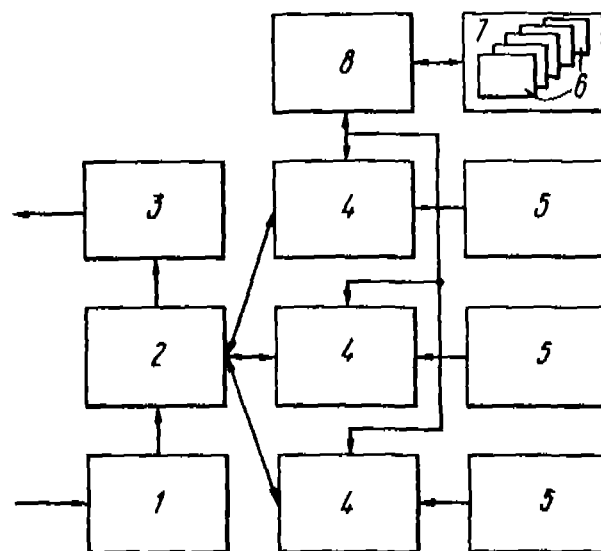


Fig. 1

Compl. Specn. 13 Pages;

Drwgs. 5 Sheets.

CLASS: 14 A<sub>1</sub> & 2.  
Int. Cl.: H01M 2/04, 2/12, 2/36.

168866

### AN IMPROVEMENTS IN OR RELATING TO RECHARGEABLE CELL OR STORAGE BATTERY.

Applicant : KISHOR CHANDRA KOTHARI AND VIPUL KOTHARI OF 96 A CHITTARANJAN AVENUE, CALCUTTA-700 012, WEST BENGAL.

Inventors : (1) KISHOR CHANDRA KOTHARI & (2) VIPUL KOTHARI.

Application No. 993/Cal/1987, filed on 22nd December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

### 16 Claims

A sealed rechargeable cell comprising a container housing therein the electrode assembly made of positive and negative electrodes having separators therebetween, said container having a lid on its open end, said lid having a gas vent hole, and an opening adapted to be used for topping purposes characterised in that a pair of metallic contact arms are mounted to the said lid and depending therefrom towards the interior of the container and one each adapted to contact the anode and the cathode respectively, electrical leads being provided on the outer surface of the lid in operational association with the said contact arms, the said opening for topping purposes having a tubular member depending therefrom towards the interior of the container, the lowermost level of the tubular member being closed and adapted to lie just at the top level of the electrolyte of a loaded cell, said tubular member having a plug member removably fitted thereto with a barrel member downwardly extending from said plug member and housed

within the tubular member, said tubular member having one or more openings at or near its lower end thereof, the outer surface of the lid being provided with a slidable closure member adapted to close either the opening for topping purposes or the gas vent hole as required, the underside of the lid having means for preventing access of electrolyte into the said gas vent hole but permitting access to the gas, said means comprising a housing member having a plurality of co-axial housings depending from an intermediate wall and having gas entry holes in a zig zag manner and wherein the container is provided with a layer of absorbant material in the region of the electrode assembly, which absorbant material is chemically inert to the electrolyte and to the gas formed during the operation of the cell and is non-reactive to the electrodes and the material of construction of the cell.

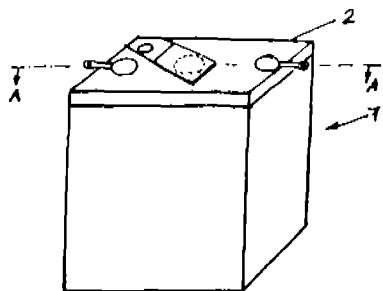


Fig. 1

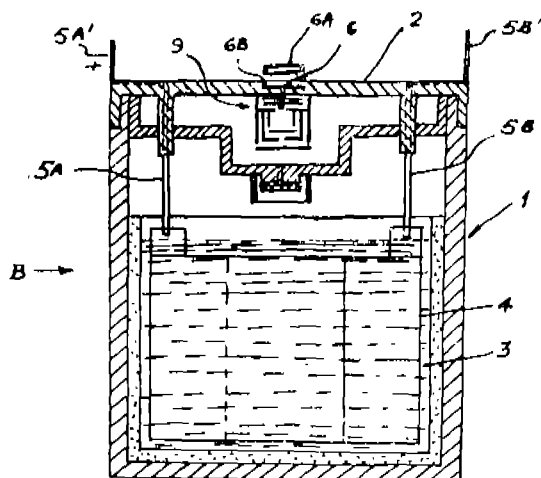


Fig. 2

Compl. Specn. 20 Pages.

Drgs. 4 Sheets.

CLASS : 84 C1.

168867

Int. Cl. : C10L 5/02, 5/06, 5/20, 5/28, 5/30, 10/02.

#### PROCESS FOR PREPARING SMOKELESS, CURED FUEL BRIQUETTES.

Applicant: PETROFINA (U.K.) LIMITED, PETROFINA HOUSE 1, ASHLEY AVENUE, EPSOM SURREY KT 18 5 AD, ENGLAND.

Inventors: (1) PETER RICHARD MCCRAINOR, (2) PETER BEWICK CAPLIN, (3) JAMES WILLIAM MIDDLEMAS, (4) GERAINT REES, MORAWELL, (5) MARIO ANGELINI.

Application No. 62/Cal/1988, filed on 28th January, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A process for producing smokeless, cured fuel briquettes, which process comprises the steps of :

- (a) forming green briquettes from a particulate carbonaceous material and a lignosulphonate which is used as a binder; and
- (b) curing the green briquettes in an oven in the presence of an oxidizing atmosphere and superheated steam, wherein sulphur present in said binder being oxidized and hydrolysed exothermally at the curing temperature with formation of sulphuric acid which is dissociated endothermally in the case of a temperature rise above a threshold value, said endothermic dissociation promoting thermal balance as herein described within the curing zone, any remaining small excess of heat being removed as sensible heat in the circulating gases.

Compl. Specn. 20 Pages.

Drg. Nil.

CLASS : 206-E.

168868

Int. Cl. : B 32 B, 15/08, II 05 K, 3/02.

#### PROCESS FOR THE CONTINUOUS PRODUCTION OF BAND SHAPED SUPPORTING PLATES AND A DOUBLE BAND PRESS FOR PRODUCING SAID PLATES.

Applicant: AEG ISOLIER-UND KUNSTSTOFF GMBH, OF OTTO-ILAHN-STRASSE 5, D-3500 KASSEL, FEDERAL REPUBLIC OF GERMANY.

Inventor: HANS-JURGEN SCHAFER.

Application No. 203/Cal/1988, filed on 8th March, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

A process for the continuous production of band shaped supporting plates by pressing a resin soaked fibre strip (prepreg) with a copper foil on both sides by means of a double band press under pressure and temperature, whereby the copper foil and the prepreg are preheated before or during the intake into the double press, wherein : the preheating results without pressure to a temperature below the melting point of the resin, the laminate is formed under jellying of the resin in a first pressure zone (6) at a temperature of between 100 to 150°C and subsequently the laminate is cured at an increased temperature of between 180 to 240°C in a second pressure zone (7) opposite to the first pressure zone, the pressing in both the pressure zones being carried out at a pressure of between 10 and 25 bar, said laminate being retreated without pressure in a conditioning zone (8) subsequent to the delivery from the double band press at a temperature of 150 to 220°C.

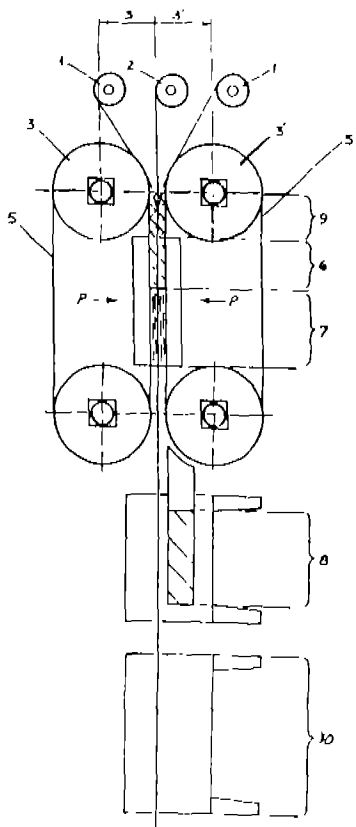


Fig. 1

Compl. Specn. 11 Pages.

Drgs. 2 Sheets.

CLASS : 5 A.

168869

Int. Cl. : A 01 B, 3/00.

## AN AGRICULTURAL DEVICE

Applicant : MRS. SHYAMA AGERWAL OF AGRO-COMMERCIAL, 25, CAMAC STREET, CALCUTTA-700 016, WEST BENGAL, INDIA.

Inventor : B. M. AGERWAL.

Application No. 219/Cal/1988, filed on 14th March, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 20 Claims

An agricultural device comprising a frame structure made of structural elements which have means for mounting spike members, one end of the device having means to be fastened to a power machine the other end having means for levelling soils characterized in that said frame structure is made of a plurality of longitudinal and transverse first structural elements, a plurality of mounting holes being provided in the said structural elements, each adapted to engage a spike member capable of ploughing and harrowing the field, said structure being provided with a plurality

of a second set of structural elements heavier than the said first structural elements, said device further having reinforcing members, one end of the said device being adapted to be fastened to a power machine through fastening means, while the other end of the device is provided with beams adapted to engage additional means for the purposes of levelling undulated land, removing grass and weeds and for pulverising the soil.

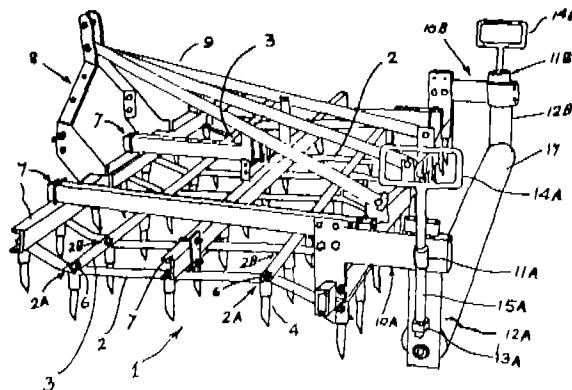


Fig. 1

Compl. Specn. 16 Pages.

Drgs. 2 Sheets.

CLASS : 42 A2D.

168870

Int. Cl. : A 24 B 15/00, A 24 C 5/00.

## CIGARETTE TYPE SMOKING ARTICLE

Applicant : R.J. REYNOLDS TOBACCO COMPANY 403 NORTH MAIN STREET, CITY OF WINSTONSALEM STATE OF NORTH CAROLINA 27102, UNITED STATES OF AMERICA.

Inventors : (1) CHANDRA KUMAR BANERJEE, (2) ERNEST GILBERT FARRIER, (3) JAMES LUTHUR HARRIS, (4) ALAN BENSON NORMAN, (5) JAMES LEE RESCE, (6) JOHN HUGHES REYNOLDS IV, (7) HENRY THOMAS RIDINGS, (8) ANDREW JACKSON SENSABAUGH, (9) MICHAEL DAVID SHANNON, (10) GARY ROGER SHELAR.

Application No. 591/Cal/1989, filed on 24th July, 1989.

Division of Application No. 382/Cal/86, dated the 20th May, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 24 Claims

A cigarette-type smoking article comprising :

- (a) a combustible fuel element having a density of at least 0.5 g/cc;
- (b) a physically separate aerosol generating means including an aerosol forming material; and at least one of
  - (i) X an insulating member circumscribing at least a portion of the fuel element, and

- Int. Cl.<sup>4</sup>: A45C 3/00 & 3/08.

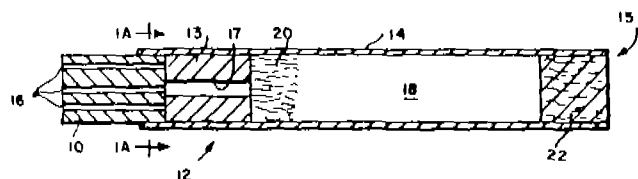
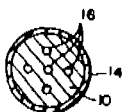


Fig. 1



**Fig. 2**

**Drgs. 4 Sheets.**

168871

Int. Cl.<sup>4</sup>: C 08 F 4/22.

PROCESS FOR PREPARING A CROSSLINKED POLYMER  
SUCH AS POLYCYCLOOLEFINS FOR USE IN  
ELECTRONICS.

Applicant(s): THE B.F. GOODRICH COMPANY A NEW YORK CORPORATION OF 500 SOUTH MAIN STREET, AKRON, OHIO 44318, UNITED STATES OF AMERICA.

Inventor(s): ROBERT JOHN MINCHAK, PARLEY CLIVE  
LANE JR.

Application for the Patent No. 1050/Del/81, filed on 1st December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

## 11 Claims

Process for preparing a crosslinked polymer such as polycycloolefins for use in electronics industries, said process comprising the step of polymerizing a monomer charge comprising at least one cycloolefin monomer containing at least one norbornene group in the presence of a metathesis catalyst system such as herein described and 0.0001 to 0.1 mole per mole of said monomer charge of a crosslinker selected from cycloolefin monomers containing two or more norbornene groups at least two of which are located at terminal or pendant positions of the molecule with at least one double bond in each of the norbornene groups, and mixtures of such crosslinkers; said crosslinked polymer has a swelling index of less than about 10 in toluene.

**Drgs. 2 Sheets.**

LUGGAGE ARTICLE COMPRISING THE COMBINATION  
OF A GARMENT BAG AND PACKING CASE.

Applicant: SAMSONITE CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF COLORADO, U.S.A., OF 11200 EAST 45TH AVENUE, DENVER, COLORADO 80239, U.S.A.

**Inventors : WILLIAM L. KING & CHARLES K. WEISBART.**

Application for Patent No. 83/Del/87, filed on 2nd February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, New Delhi-110005.

### 13 Claims

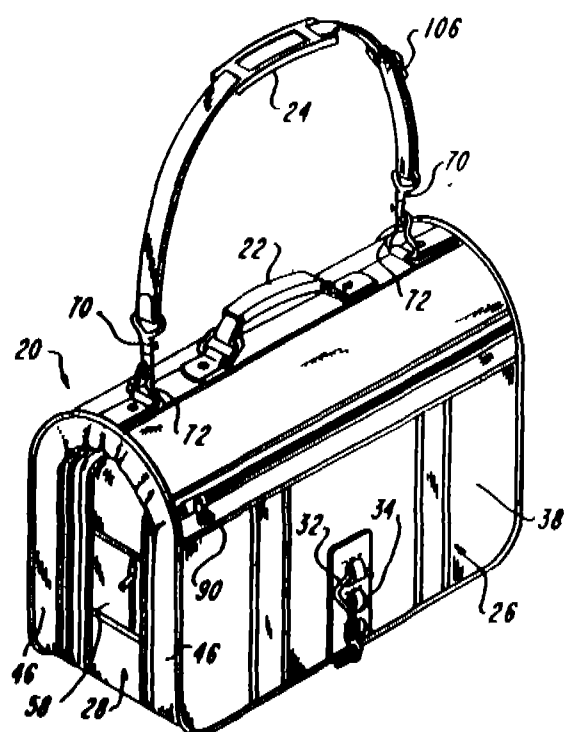
A luggage article comprising the combination of a garment bag and a packing case which comprises :

a flexible garment bag enclosure having interior and exterior elongated panels separated by left, right, top end and bottom end side walls extending peripherally between said exterior and interior panels, said panels and said side walls enclosing between them an interior space within which to pack and hold garments on hangers;

a packing case enclosure composed of an outside partition piece and an inside marginal partition piece separated by left, right, top and bottom border pieces, said partition and border pieces enclosing between them an interior space within which to pack relatively smaller items, at least one of said partition pieces being supported by a stiffening element, said packing case enclosure being permanently connected from one side of its inside partition piece to the interior panel of said flexible garment bag enclosure and pivotably connected from the opposite side of its inside partition piece to the bottom end side wall of said garment bag enclosure.

means for interconnecting said garment bag enclosure and said packing case enclosure to provide said pivotable interconnection therebetween whereby when said luggage article is in an operative mode for use, said interconnecting means is disengaged so that the interior space of each enclosure may be accessed without substantial interference from the other enclosure and when said article is in a transportation mode with said interconnecting means engaged, said garment bag enclosure folds over and embraces at least said outside partition piece of said packing case enclosure; and

fastening means extending between said garment bag enclosure and said packing case enclosure for securing the garment bag enclosure to said packing case enclosure in said transportation mode, thereby converting said luggage article into an integral unit which enables easy portability thereof in said transportation mode.



Compl. Specn. 25 Pages.

Drgs. 4 Sheets.

Ind. Cl. : 61H.

168873

Int. Cl.<sup>4</sup> : F28 F3/00.

A DEVICE FOR FIXING A PERFORATED SHEET AGAINST THE PERFORATED TUBE PLATE OF A HEAT EXCHANGER.

Applicant: STEIN INDUSTRIE OF 19-21 AVENUE MORANE SAULNIER 78140 VELIZY VILLACOUBLAY, FRANCE, A FRENCH COMPANY.

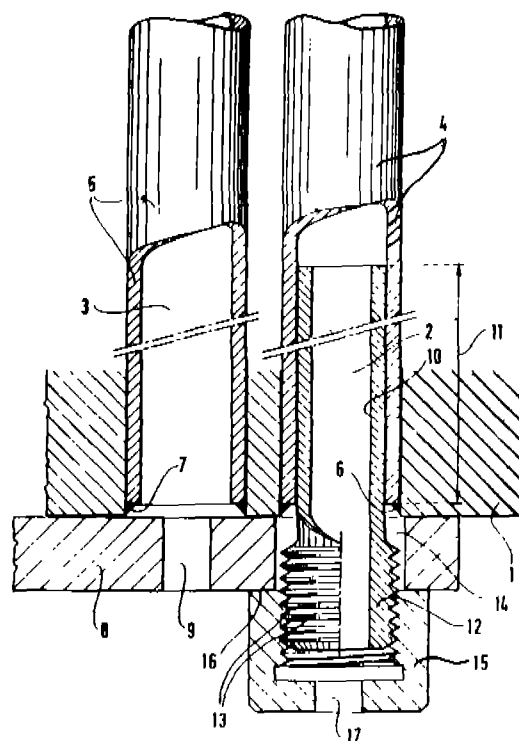
Inventors: JEAN-CLAUDE FOUCHER & PIERRE DEVOUCOUX

Application for Patent No. 181/Del/87, filed on 3rd March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

3 Claims

A device for fixing a perforated sheet (8) against the perforated tube plate of a heat exchanger having a bundle of tubes, said device comprising hollow pins (10) inserted in the ends (45) of some of the tubes and expanded therein, said hollow pins (10) terminating outside said tubes with threaded ends (13) onto which respective nuts are screwed for clamping the perforated sheet against the perforated tube plate, said nuts having heads (12) including respective axial fluid-flow controlling bores.



Compl. Specn. 5 Pages.

Drg. 1 Sheet.

Ind. Cl. : 195B XXIX(3).

168874

Int. Cl. : F16K-15/00, 15/04, 17/00, 17/06.

CONTROL VALVE FOR CONTROLLING FLOW BETWEEN A USER, A HIGH-PRESSURE SOURCE AND A LOW-PRESSURE SUMP.

Applicant: SOCIETE D 'EXPLOITATION DE BREVETS POUR INDUSTRIE ET LA MARINE SEBIM, A FRENCH COMPANY OF ZONE INDUSTRIELLE LA PALUNETTE, CHATEAUNERF LES MARTIGUES, BOUCHES-DU-RHONE, FRANCE.

Inventors: ANDRE GEMIGNANI, SERGE JUGE BOULOGNE & GERALD SCHAUMBURG.

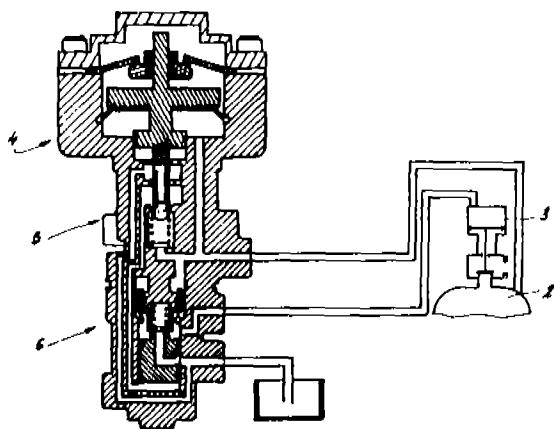
Application for Patent No. 212/Del/87, filed on 10th March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972), Patent Office Branch, New Delhi-110005.

10 Claims

A control valve for controlling flow between a user (3), a high pressure source (2) and a low-pressure sump (13), said valve comprising a valve housing (7) providing a chamber (8a, 8b, 8c) extending along an axis (A) of said housing (7), the housing (7) having ports (10, 12, 13) connected to said high-pressure source (2), said low-pressure sump (13), and said user (3), and said user (3), the user port (12) opening into said chamber (8a, 8b, 8c) between

the source (2) and sump (13) ports; a valve body (14a, 14b) in said chamber (8a, 8b, 8c) said valve body consisting of first and second valve body parts (14a, 14b) which are coaxially disposed with respect to each other and movable independently in said chamber (8a, 8b, 8c) along said housing axis (A) one said valve body part (14b) having therein a through going passageway (17) which is for the major portion thereof coaxial with the housing axis (A) one end of said passageway (17) being continuously in communication with one of the source (10) and sump (13) ports, an opposite open end of said passageway located on said housing axis (A) being sealingly engageable with the other valve body (14a) part; a central seat (9) located between the source (10) and sump (13) ports for cooperating with one of said valve body parts (14a, 14b) for sealing engagement therewith in order to selectively isolate said ports (10, 12, 13) from each other, said valve body parts (14a, 14b) in response to fluid pressure being displaceable between: (i) one end position permitting fluid flow in the chamber (8a, 8b, 8c) between the user port (12) and one of the other ports (10 or 13) while blocking flow between said user port (12) and the remaining port (13 or 10), said valve parts (14a, 14b) being in sealing engagement with each other while one said valve body part (14a) is out of engagement with the central seat (9); (ii) an intermediate position of said valve body parts (14a, 14b) blocking fluid flow in said chamber (8a, 8b, 8c) between said ports (10, 12, 13) with said valve body parts (14a, 14b) in sealing engagement with each other while one said valve body part (14a) is in sealing engagement with said central seat (9); and (iii) a drain end position permitting flow in said chamber (8a, 8b, 8c) between said user (12) and one said port (10) while blocking flow between said one port (10) and remaining said port (13) with the valve parts (14a, 14b) out of axial contact with each other and with one said valve part (14a) in sealing engagement with said central seat (9).



Compl. Specn. 16 Pages.

Drgs. 4 Sheets.

Ind. Cl. : 128 G, 128 F.  
Int. Cl. : A 61B—10/00.

168875

## OVULATION TESTING APPARATUS

Applicant : HAROLD JACK KOSASKY, A U.S. CITIZEN, OF 25 BOYLSTON STREET, CHESTNUT HILL, MASSACHUSETTS, U.S.A.

Inventor : HAROLD JACK KOSASKY.

Application for Patent No. 398/Del/87, filed on 8th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

## 6 Claims

Ovulation testing apparatus comprising a member provided with a finely roughened end surface insertable in the mouth to coat the surface with an adhering saliva sample; means for receiving the member and having an opposing roughened bottom surface against which the sample carried by the member end surface is compressed; means connected with the receiving means for applying a pulling or stretching force between the surfaces, the force thereby causing fracture of the saliva sample and separation of the member and the receiving means when the viscoelasticity of the saliva dips prior to ovulation; and said separation indicating such fracture to enable intercourse, abstinence or activity.

Compl. Specn. 15 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 32 F2(b) IX(1).  
Int. Cl. : C07D 239/46.

168876

## A PROCESS FOR PREPARING PYRIDO-PYRIMIDINE DIONES AND PHARMACEUTICALLY ACCEPTABLE ACID ADDITION SALT THEREOF.

Applicant : PRIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

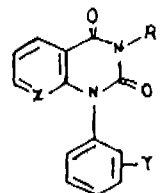
Inventor : JOHN ADAMS LOWE.

Application for Patent No. 688/Del/87, filed on 6th August, 1987.

Appropriate Office for Opposition Proceeding (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

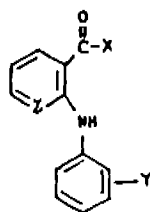
## 5 Claims

A process for preparing pyridopyrimidinediones of formula I of the drawings



or a pharmaceutically acceptable acid addition salts thereof, wherein R<sub>1</sub> is hydrogen, alkyl of 1 to 3 carbon atoms, cyclopentylmethyl, cyclohexylmethyl, norbornylmethyl, (2,2,2) bicyclooctylmethyl, or benzyl, the phenyl of the benzyl optionally being substituted by halogen, trifluoromethyl, nitro, or CO<sub>2</sub>M wherein M is a pharmaceutically acceptable cation :

Y is carboalkoxy wherein the alkoxy has 1 to 6 carbon atoms, carbobenzyloxy, carboxamido, N-alkylcarboxamido wherein the alkyl has 1 to 6 carbon atoms, or CO<sub>2</sub> M wherein M is as defined above. Z is N or CH, provided that when Z is CH then R<sub>1</sub> is benzyl, and when Z is CH, Y may also be tetrazole optionally substituted by alkyl of 1 to 3 carbon atoms or benzyl, characterised by cyclization of a compound of the formula II of the drawing :



wherein Z is as defined above, Y is as defined above and X is alkoxy of 1 to 6 carbon atoms, with an isocyanate of the formula  $R_1N-C=O$  . . . . III

wherein  $R_1$  is as defined above and if desired, converting the compound of formula I into its pharmaceutically acceptable acid addition salts by a method known per se.

Compl. Specn. 22 Pages.

Drq. 1 Sheet.

Ind. Cl. : 32 F1.

168877

Int. Cl.<sup>4</sup> : C07D, 209/04.

A PROCESS FOR THE SYNTHESIS OF 2, 7-DI- $\delta$  -[ (4-FLUORO-BENZOYL) PROPYL] -1, 2, 3, 4, 6, 6a, 7, 11b, 12, 12a-DECAHYDROPIRAZINO (2', 1' : 6, 1) PYRIDO (3, 4-b) INDOLE USEFUL AS POTENTIAL CNS DEPRESESSANT AGENTS.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

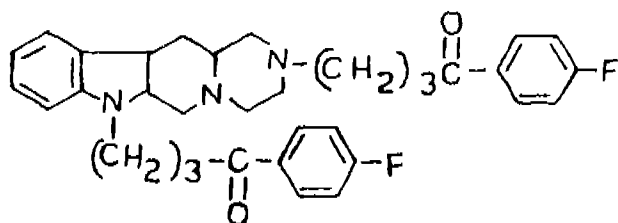
Inventors: JYOTI RAO, ANIL KUMAR SAXENA, PRITHVI RAJ DUA, GIRJA SHANKAR & VISHWA NATH BHALLA.

Application for Patent No. 1080/Del/1987, filed on 16th December, 1987.

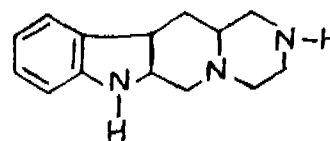
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

#### 5 Claims

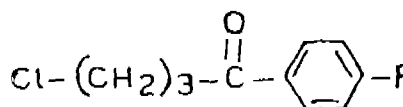
A process for the synthesis of 2, 7-di- $\delta$  -[ (4-fluoro-benzoyl) propyl], 1, 2, 3, 4, 6, 6a, 7, 11b, 12, 12a-decahydropyrazino (2', 1' : 6, 1) pyrido (3, 4, -b) indole of the formula 3



which comprises condensing 1, 2, 3, 4, 6, 6a, 7, 11b, 12, 12a-decahydropyrazino (2', 1' : 6, 1) pyrido (3, 4, -b) indole of the formula 1



with  $\gamma$  -chloro-p-fluorobutyrophenone of the formula 2



by heating in the presence of a base and an organic solvent at a temperature in the range of 30-120°C.

Compl. Specn. 5 Pages.

Drq. 1 Sheet.

Ind. Cl. : 13 A.

168878

Int. Cl.<sup>4</sup> : A45C 3/00.

#### AN IMPROVED GARMENT BAG.

Applicant: SAMSONITE CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF COLORADO, UNITED STATES OF AMERICA, OF 11200 EAST 45TH AVENUE, DENVER, COLORADO 80239, UNITED STATES OF AMERICA.

Inventors: WILLIAM LEWIS KING & CHARLES KERNER WEISBART.

Application for Patent No. 241/Del/88, filed on 24th March, 1988.

Divisional to Patent Application No. 936/Del/85, filed on 8th November, 1985.

Ante-dated to 8th November, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

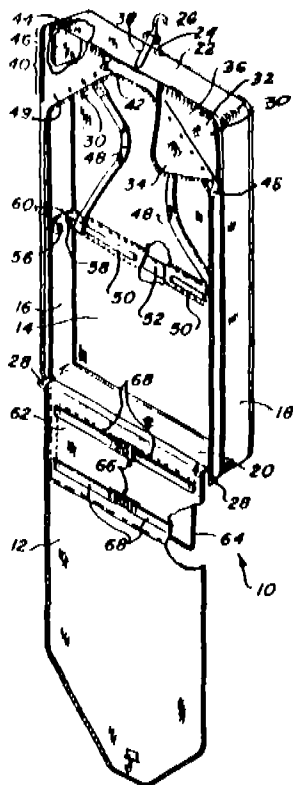
#### 8 Claims

An improved garment bag (10) of the type adapted to fold into a suitcase-like configuration for travelling and having an interior space within which to pack garments, the interior space being formed by an exterior panel (14), a left and a right vertical side gusset (16, 18), a top gusset (22), a bottom gusset (20), and an interior panel (12) flexibly connected to the bottom gusset (20) and selectively removably connected to the top (22) and side gussets (16, 18), characterised in that said garment bag comprises:

at least one corner compartment (30) located in the upper corner (32) of the garment bag between said top gusset and said vertically extending side gusset, said corner compartment being

formed by a divider panel (36) connected to the exterior panel (14) and extending between a side gusset (16/18) and a middle location on the top gusset (22), and an interior access flap (34) which is connected to the divider panel and the portions (38, 40) of the side and top gussets between the ends of the divider panel and the corner of the bag (10) at which the corner compartment (30) is located, and wherein :

the interior panel (12) is also connectable to the divider panel (36) along the extension of the divider panel between the side (16/18) and top gussets (22).



Compl. Specn. 14 Pages

Drgs. 2 Sheets.

Ind. Cl. : 55E.

168879

Int. Cl.<sup>4</sup> : C07D 493/00.

#### A METHOD OF PREPARING CRYSTALLINE AZITHROMYCIN DIHYDRATE.

Applicant : PFIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK UNITED STATES OF AMERICA.

Inventors : DOUGLAS JOHN MELDRUM ALLEN & KEVIN MICHAEL NEPVEUX.

Application for Patent No. 418/Del/88, filed on 11th May, 1988.

Appropriate Office for the Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

3 Claims

A method of preparing crystalline azithromycin dihydrate which comprises dissolving azithromycin monohydrate in tetrahydrofuran, adding from 2 to 4 and upto 3 molar equivalents of water and a (C<sub>3</sub>-C<sub>7</sub>) hydrocarbon in any order, and recovering by conventional method said crystalline dihydrate.

Compl. Specn. 11 Pages.

Drg. 1 Sheet.

Ind. Cl. : 32 F<sub>34</sub> + 35E.

168880

Int. Cl. : C07-103/19.

#### AN IMPROVED PROCESS FOR THE PREPARATION OF - $\alpha$ -DEOXYTETRACYCLINE.

Applicant : RANBAXY LABORATORIES LIMITED 19, NEHRU PLACE, NEW DELHI, INDIA.

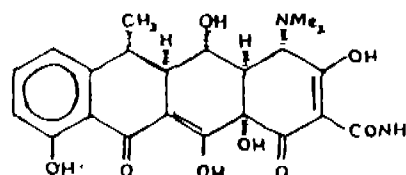
Inventors : JAG MOHAN KHANNA, KIRAN BALA & INDER PAL SINGH GROVER.

Application for the Patent No. 776/Del/88, filed on 14th September, 1988.

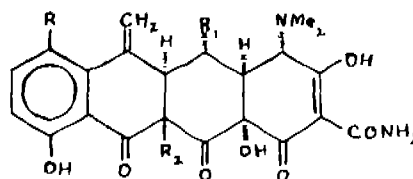
Appropriate Office for Opposition Proceedings (Ru'e 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

9 Claims

An improved process for the preparation of - $\alpha$ -deoxytetracycline of the formula I



Of the accompanying drawing which comprises reacting 6-deoxy-6-demethyl-6-methylene- 5-hydroxy tetracycline of formula II



Or a salt thereof wherein R is H or Cl, R<sub>1</sub> is H or OH, and R<sub>2</sub> is H or Cl with hydrogen in the presence of homogenous hydrogenation catalyst such as hydridotetrakis (triphenylphosphine) rhodium (I) in a solvent such as herein described and recovering the said - $\alpha$ -6-deoxy tetracycline in the known manner such as herein described.

Compl. Specn. 11 Pages.

Drg. 1 Sheet.

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration in the entry.

Class 1. No. 162558. Warner-Lambert Company of 201 Tabor Road, Morris Plains, New Jersey 07950, U.S.A. "Razor Cartridge". October 9, 1990.

Class 1. Nos 162592 and 162593. Wockhardt Limited of Poonam Chambers, Shivsagar Estate, Worli, Bombay-400018, Maharashtra, India, Indian Company. "Bottle". October 23, 1990.

Class 1. Nos 162634 to 162637. Normak Fashions (P) Ltd. of 201, YMCA Complex, S.P. Road, Secunderabad-500003, A.P., India, Indian Company. "Necklace and ear-tops". November 6, 1990.

Class 1. No. 162760. Normak Fashions (P) Ltd. of 201, YMCA Complex, S.P. Road, Secunderabad-500003, A.P., India, Indian Company. "Necklace and ear-tops". December 13, 1990.

Class 1. No. 163023. Rite Instruments Pvt. Ltd., 2502, Nalwa Street, Pahar Ganj, New Delhi-110055, India, Indian Company. "Water Filter". March 14, 1991.

Class 1. No. 163040. Oriental Metal Industries, 4932-Phoota Road, Bara Tooti Sadar Bazar, Delhi-110006, India, Indian Partnership Firm. "Toy Cars". March 18, 1991.

Class 1. No. 163125. Pradip Kumar Barman of 30/1, Salimpur Road, Calcutta-700031, W.B. India, Indian. "Centre Table cum-folding ladder". April 10, 1991.

Class 3. No. 162591. Wockhardt Limited of Poonam Chambers, Shivsagar Estate, Worli, Bombay-400018, Maharashtra, India. "Bottle". October 23, 1990.

Class 3. No.162682. Shakti Engineering Works, Mangala Estate, Lambhavi Road, Anand-388001, Gujarat, India. "Floor Mill". November 20, 1990.

Class 3. No. 162754. Niranjana Plastics, 19/7, Botawala Bldg., Silladevi Temple Road, Bombay-400016, Maharashtra, India, Indian Proprietary Firm. "Carboy". December 11, 1990.

Class 3. No. 162957. Allied Instruments Pvt. Ltd. of 30-CD, Govt. Industrial Estate, Kandivli, Bombay-400067, Maharashtra, India. "Paper clip". March 4, 1991.

Class 3. No. 163126. Beautility a proprietary firm of BD-413, Salt Lake City, Calcutta-64, W.B., India. "Centre Table cum Folding Ladder". April 10, 1991.

Class 5. No. 162594. Wockhardt Limited of Poonam Chambers, Shivsagar Estate, Worli, Bombay-400018, Maharashtra, India. "Box". October 23, 1990.

Class 10. Nos. 162961 & 162962. Bata India Limited of 30, Shakespeare Sarani, Calcutta-700017, W.B., India. "Footwear". March 5, 1991.

*Copyright extended for the 2nd period of five years*

Nos. 162220, 157150 to 157152, 160719 & 161539—Class 1.

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